

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: April 3, 2008

ATTY DOCKET NO.
2005_0034ASERIAL NO.
10/521,576APPLICANT
Toshitada NOGUCHI et al.FILING DATE
June 29, 2005GROUP
3726

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,071,750	12/1991	Kragl et al.			Corresponds to BF, BQ
	AB	5,334,514	08/1994	Kittelman et al.			Corresponds to BI
	AC	5,876,980	03/1999	DeFrees et al.			Corresponds to BJ
	AD	6,332,026	12/2001	Kuusama et al.			Corresponds to BM
	AE	5,811,539	09/1998	Seiffert-Stoeriko et al.			Corresponds to BN

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BA	10-4961	01/1998	JP			Abstract
	BB	0 578 825 B1	03/1997	EP			Corresponds to BC
	BC	5-211884	08/1993	JP			
	BD	95/26399	10/1995	WO			
	BE	0 708 177 A1	04/1996	EP			Corresponds to BD
	BF	3-180190	06/1991	JP			Abstract
	BG	2001-136982	05/2001	JP			Abstract
	BH	1 081 230 A2	03/2001	EP			Corresponds to BG
	BI	0 524 143 A1	01/1993	EP			
	BJ	96/32492 A1	10/1996	WO			
	BL	61-180719 A	08/1986	JP			Abstract
	BM	98/06239 A1	02/1988	WO			
	BN	0 704 536 A1	03/1996	EP			
	BO	02-177891	07/1990	JP			Abstract
	BP	2003-093091	04/2003	JP			Abstract
	BQ	0 428 947 A1	11/1990	EP			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.A./

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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	International Search Report dated March 11, 2003 (PCT/JP03/00258) in the International (PCT) Application of which the present application is the U.S. National Stage.
CB	International Search Report dated December 28, 2004 issued in PCT/JP2004/013760 corresponding to SN 10/573,385 having overlapping inventors.
CC	T. Hamamoto et al., "Enzymatic Synthesis of Cytidine 5'-Monophospho-N-acetylneuraminic Acid", Biosci. Biotechnol. Biochem., Vol. 69 (10), pp. 1944-1950 (2005).
CD	M. Kittelmann et al., "CMP-N-acetyl neuraminic-acid synthetase from Escherichia coli: fermentative production and application for the preparative synthesis of CMP-neuraminic acid", Appl. Microbiol. Biotechnol., Vol. 44, pp. 59-67 (1995).
CE	T. Endo et al., "Large-scale production of CMP-NeuAc and sialylated oligosaccharides through bacterial coupling", Appl. Microbiol. Biotechnol., Vol. 53, pp. 257-261 (2000).
CF	M. Kim et al., "Enzymes in Carbohydrate Synthesis: N-Acetylneuraminic Acid Aldolase Catalyzed Reactions and Preparation of N-Acetyl-2-deoxy-D-neuraminic Acid Derivatives", J. Am. Chem. Soc., 1988, Vol. 110, pp. 6481-6486.
CG	E. Simon et al., "Synthesis of CMP-NeuAc from N-Acetylglucosamine: Generation of CTP from CMP Using Adenylate Kinase", J. Am. Chem. Soc., 1988, Vol. 110, pp. 7159-7163.
CH	S. Blayer et al., "Alkaline Biocatalysis for the Direct Synthesis of N-Acetyl-D-Neuraminic Acid (Neu5Ac) from N-Acetyl-D-Glucosamine (GlcNAc)", Biotechnology and Bioengineering, Vol. 66, No. 2 (1999).
CI	M. Mahmoudian et al., "An efficient process for production of N-acetylneuraminic acid using N-acetylneuraminic acid aldolase", Enzyme and Microbial Technology, Vol. 20, pp. 393-400 (1997).
CJ	S.L. Shames et al., "CMP-N-acetylneuraminic acid synthetase of Escherichia coli: high level expression, purification and use in the enzymatic synthesis of CMP-N-acetylneuraminic acid and CMP-neuraminic acid derivatives", Glycobiology (1991), Vol. 1, No. 2, pp. 187 to 191.
CK	P.J. O'Brien et al., "Functional interrelationships in the alkaline phosphatase superfamily: phosphodiesterase activity of Escherichia coli alkaline phosphatase", Biochemistry. (2001) Vol. 40, No. 19, pp. 5691 to 5699.
CL	M.A. Nesmeyanova et al., "Multiple forms of alkaline phosphatase from Escherichia coli cells with repressed and derepressed biosynthesis of the enzyme", J. Bacteriol (1981) Vol. 146, No. 2, pp. 453 to 459.
CM	B. Magnouloux-Blanc et al., "Overproduction and excretion of β -lactamase and alkaline phosphatase by Escherichia coli <i>olp</i> mutants", Appl. Microbiol. Biotechnol (1988) Vol. 29, No. 2/3, pp. 258 to 263.
CN	K. Ikeda et al., "Synthesis of sialic acid-containing nucleotide sugars: CMP-sialic acidanalogs", Carbohydrate Research (1992) Vol. 224, No. 7, pp. 123 to 131.

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CO	E. Simon et al., "Synthesis of CMP-NeuAc from N-Acetylglucosamine: Generation of CTP from CMP Using Adenylate Kinase", J. Am. Chem. Soc., Vol. 110, pp. 7159 to 7163 (1988).
CP	Proceedings of 2001 Annual Conference of The Society for Biotechnology (2001), Japan, with English Translation.
CQ	K. Ishige et al., "Novel Method for Enzymatic Synthesis of CMP-NeuAc.," Biosci. Biotechnol. Biochem., August 2001, Vol. 65, No. 8, pp. 1736 to 1740.
CR	M. Kittelman, et al., "CMP-N-acetyl neuraminic-acid synthetase from Escherichia coli: fermentative production and application for the preparative synthesis of CMP-neuraminic acid", Appl. Microbiol. Biotechnol., December 1995, Vol. 44, pp. 59 to 67.

EXAMINER

/Kade Ariani

DATE CONSIDERED

12/03/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.A./